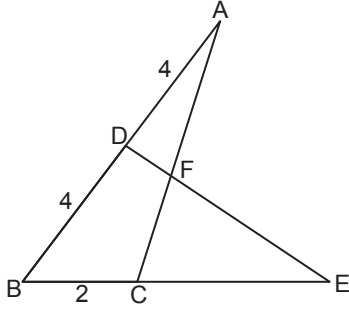


Üçgenin Alanı

1.



ABC ve BDE üçgenlerinde

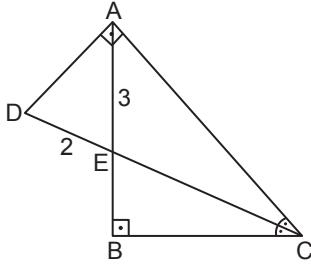
$|AD| = |BD| = 4$ cm ve $|BC| = 2$ cm'dir.

$$A(\widehat{DBE}) = 2 \cdot A(\widehat{ABC})$$

olduğuna göre $|CE|$ kaç santimetredir?

- A) 6 B) 5 C) 4 D) 3 E) 2

2.



ABC ve ADC dik üçgenlerinde $[AB] \perp [BC]$ ve

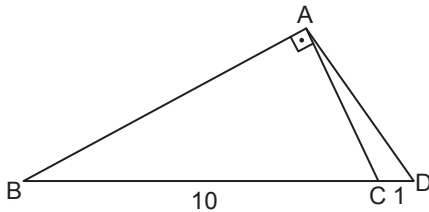
$[AD] \perp [AC]$ 'tir.

$m(\widehat{BCD}) = m(\widehat{ACD})$, $|AE| = 3$ cm ve $|DE| = 2$ cm

olduğuna göre $A(\widehat{ADE})$ kaç santimetrekaredir?

- A) $\sqrt{2}$ B) 2 C) $\sqrt{6}$ D) $2\sqrt{2}$ E) $3\sqrt{2}$

3.



ABC dik üçgeninde $[AB] \perp [AC]$ ve

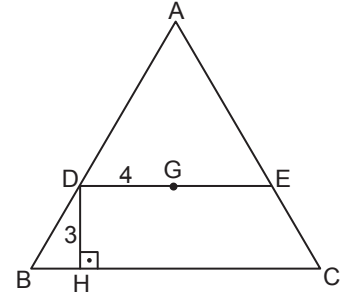
$2 \cdot m(\widehat{ABC}) = m(\widehat{ADB})$ 'tir.

$|BC| = 10$ cm ve $|CD| = 1$ cm

olduğuna göre $A(\widehat{ABD})$ kaç santimetrekaredir?

- A) 11 B) 16,5 C) 22 D) 27,5 E) 33

4.



ABC üçgeninde $[DE] \parallel [BC]$ ve $[DH] \perp [BC]$ 'tir.

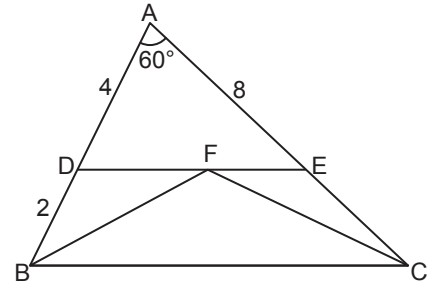
G noktası ABC üçgeninin ağırlık merkezi,

$|DH| = 3$ cm ve $|DG| = 4$ cm

olduğuna göre $A(\widehat{ABC})$ kaç santimetrekaredir?

- A) 54 B) 48 C) 42 D) 36 E) 30

5.



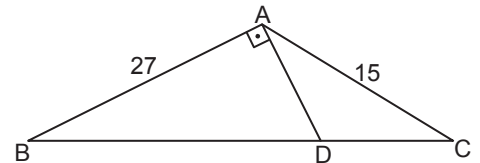
ABC üçgeninde $[DE] \parallel [BC]$, $m(\widehat{BAC}) = 60^\circ$, $F \in [DE]$ 'dir.

$|AD| = 4$ cm, $|BD| = 2$ cm ve $|AE| = 8$ cm

olduğuna göre $A(\widehat{BFC})$ kaç santimetrekaredir?

- A) 6 B) $4\sqrt{3}$ C) 8
D) $6\sqrt{3}$ E) $8\sqrt{3}$

6.



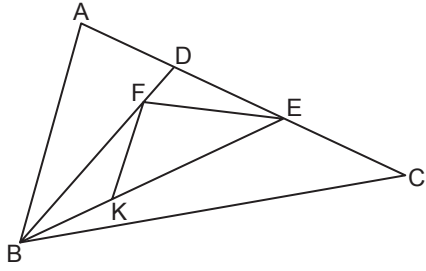
ABC üçgeninde $[AB] \perp [AC]$, $|BC| = 4|DC|$, $|AB| = 27$ cm ve $|AC| = 15$ cm

olduğuna göre $A(\widehat{ABC})$ kaç santimetrekaredir?

- A) 135 B) 144 C) 150 D) 156 E) 162

Üçgenin Alanı

7.



ABC üçgeninde $|AD| = |DE| = |EC|$, $|BD| = 3|FD|$ ve $|BE| = 3|BK|$ 'tir. $A(\widehat{ABC}) = 54^\circ \text{ cm}^2$

olduğuna göre $A(\widehat{EFK})$ kaç santimetrekaredir?

- A) 4 B) 6 C) 8 D) 10 E) 12

8. Bir ABC üçgende

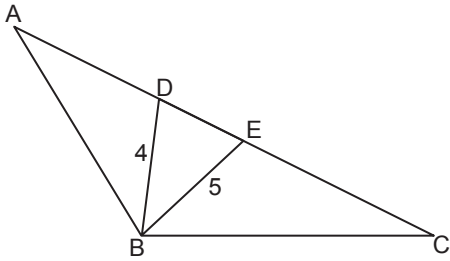
$$2 \cdot m(\widehat{ABC}) + m(\widehat{ACB}) = 90^\circ,$$

$$|AC| = 8 \text{ cm ve } |BC| = 16 \text{ cm}$$

olduğuna göre $A(\widehat{ABC})$ kaç santimetrekaredir?

- A) 38,2 B) 38,4 C) 39,6 D) 42,8 E) 43,2

9.

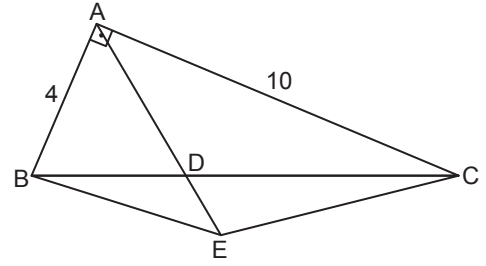


ABC üçgeninde $m(\widehat{ABC}) = 120^\circ$, $|AB| = |AE|$, $|BC| = |CD|$, $|BD| = 4 \text{ cm}$ ve $|BE| = 5 \text{ cm}$

olduğuna göre $A(\widehat{BED})$ kaç santimetrekaredir?

- A) $2\sqrt{2}$ B) 5 C) 6 D) $5\sqrt{2}$ E) 10

10.

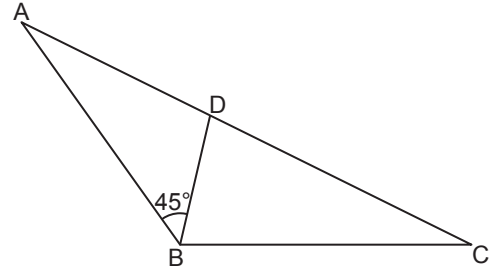


ABC dik üçgeninde $[AB] \perp [AC]$, $|AE| = 3|DE|$, $|AB| = 4 \text{ cm}$ ve $|AC| = 10 \text{ cm}$

olduğuna göre $A(\widehat{BEC})$ kaç santimetrekaredir?

- A) 20 B) 18 C) 16 D) 15 E) 10

11.



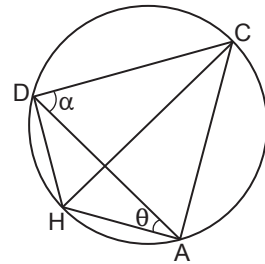
ABC üçgeninde $|AB| = |BC| = |CD|$,

$$m(\widehat{ABD}) = 45^\circ \text{ ve } A(\widehat{BDC}) = 16 \text{ cm}^2$$

olduğuna göre $|AB|$ kaç santimetredir?

- A) $4\sqrt{2}$ B) 8 C) $6\sqrt{2}$ D) 9 E) 10

12.



Şekildeki [CH] çaplı çember \widehat{ADC} 'nin çevrel çemberidir.

$$m(\widehat{CDA}) = \alpha, m(\widehat{HAD}) = \theta, \cot \alpha = \frac{1}{3} \text{ ve } 3|HA| = 2|HD|$$

olduğuna göre $\csc \theta$ nedir?

- A) $\frac{\sqrt{10}}{2}$ B) $\frac{\sqrt{10}}{3}$ C) $\frac{2\sqrt{10}}{3}$
D) $\frac{3\sqrt{10}}{2}$ E) $\frac{3\sqrt{10}}{4}$

